## Claims

What is claimed is:

- 1 1. A method, comprising:
- 2 scheduling a data flow adjustment, said data flow between a pair of nodes
- 3 communicatively coupled by a network, said scheduling responsive to
- 4 networking performance statistics.
- 1 2. The method of claim 1 wherein said networking performance statistics
- 2 further comprise a window transit time over said network.
- 1 3. The method of claim 1 wherein said networking performance statistics
- 2 further comprise an average delay over said network.
- 1 4. The method of claim 1 wherein said networking performance statistics
- 2 further comprise an arrival rate of expected messages.
- 1 5. The method of claim 1 wherein said networking performance statistics
- 2 further comprise a state of a queue that receives messages from said network,
- 3 said queue within a first node of said pair of nodes.
- 1 6. The method of claim 1 further comprising inquiring whether or not a flow
- 2 increase is desirable in light of said networking performance statistics.
- 1 7. The method of claim 6 further comprising comparing said networking
- 2 performance statistics against a minimum performance level and not scheduling
- 3 a said data flow adjustment if said minimum performance level is not achieved.

- 1 8. The method of claim 1 wherein said adjusting further comprises
- 2 increasing said data flow according to a first flow increase schedule until data
- 3 associated with said data flow is lost on said network.
- 1 9. The method of claim 8 wherein said adjusting further comprises
- 2 increasing said data flow according to a second flow increase schedule after said
- data is lost, said second said flow increase schedule having a rate of flow
- 4 increases less than said first flow increase schedule.
- 1 10. The method of claim 1 wherein said scheduling further comprises a flow
- 2 timeout pointer and a flow timeout threshold, a said data flow adjustment
- 3 triggered if said flow timeout pointer passes said flow timeout threshold
- 4 position.
- 1 11. The method of claim 10 further comprising adjusting said flow timeout
- 2 threshold in response to said networking performance statistics.
- 1 12. The method of claim 11 further comprising adjusting said flow timeout
- 2 threshold to a position corresponding to a reduced rate of flow increase if data
- 3 associated with said data flow is lost on said network.
- 1 13. The method of claim 10 wherein said flow timeout threshold position
- 2 corresponds to a factor of a window size used to control said data flow.

- 1 14. The method of claim 1 wherein said adjustment further comprises
- 2 adjusting a window size.
- 1 15. The method of claim 14 wherein said window size is adjusted by a
- 2 datagram size.